The RAw Materials Exploration and Sustainability (RAMES) degree programme provides theoretical and practical knowledge on the primary and secondary raw materials value chain within a broader circular economy framework, in combination with a strong entrepreneurial orientation.

This 24 months programme is in line with the European Institute of Innovation & Technology (EIT) educational standards by integrating business and advanced geological courses delivered in cooperation with industry by a blend of academic experts from University of Bologna, the Norwegian University of Science and Technology (NTNU) and the Geological Survey of Finland (GTK).

Students will have a thorough knowledge of primary and secondary raw materials from both a geological and engineering perspective, will learn their physico-chemical properties, exploration, sustainable use and will discuss with experts the business and entrepreneurial opportunities which can arise.

*In case of pandemic restrictions via on-line mode*
AN INNOVATIVE COURSE STRUCTURE

Semester I & II
- Primary Mineral Deposits
- Mineral Science
- Applied Petrology
- Mineral Resource Economics and Management
- Mineral Deposits in the Field
- Environmental Impact and Analysis
- Entrepreneurship and Business Models
- Field Methods of Raw Materials Exploration (GTK - Finland)

Semester III & IV
- Material Flow Analysis
- Mineral Production, Basic Course
- Solid Waste Technology and Resource Recovery

Elective courses
- Mineral Engineering and Environmental Geophysics
- Tectonics and Geodynamics
- Industrial Ecology
- Petroleum Geosystems

- Internship
- Thesis

CONTACTS:
Beatrice Capacci
Programme Coordinator
beatrice.capacci2@unibo.it

www.master-rames.eu